PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D	1,4	OCT	2005
WIPO			PCT

Applicant's or agent's file reference			VVIII
100995-1 WO	FOR FURTHER AC	TION	See Form PCT/IPEA/416
International application No. PCT/SE2004/000486	International filing date (days) 30.03.2004	ay/month/year)	Priority date (day/month/year) 31.03.2003
International Patent Classification (IPC) or	national classification and IDC		01.00.2000
C12Q1/68	The state of the s	•	
<u> </u>			
Applicant			
ASTRAZENECA AB et al.			
1. This report is the international pro	eliminary examination repo	rt. established by this	International Preliminary Examining
			memational Preliminary Examining
The file of the consists of a total	of 6 sheets, including this	cover sheet.	
3. This report is also accompanied to	by ANNEXES, comprising:		
a. □ sent to the applicant and t	o the International Bureau	a total of sheets as	follows
Succes of the description	On Oloimo and/auto		
Administrative Instruc	ng rectifications authorized	by this Authority (see	ended and are the basis of this report Rule 70.16 and Section 607 of the
☐ sheets which supersed	de earlier chapte had a		
beyond the disclosure	in the international applica	this Authority consider	ers contain an amendment that goes ted in item 4 of Box No. I and the
Supplemental Box.	• • • • • •	mon do mod, do maioa	ted in item 4 of Box No. I and the
b. (sent to the International B	ureau only) a total of (indic	ate type and number of	of electronic carrier(s)) , containing a
Box Relating to Sequence	les related thereto, in comp Listing (see Section 200 of	outer readable form or	of electronic carrier(s)) , containing a nly, as indicated in the Supplemental
		the Administrative ins	structions).
4. This report contains indications re-	ating to the following items		
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	ion		
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— Box No. III Non-establishme	ent of opinion with regard to	novelty, inventive ste	p and industrial applicability
- work or drifty Of I	MEURION		
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
☐ Box No. VI Certain documen	president of Oup	porting such statemen	t
ra _			
	the international application	on	
☐ Box No. VIII Certain observati	ons on the international ap	plication	
Date of submission of the demand			
and the demand	Dat	e of completion of this re	port
07.10.2004			
	13.	10.2005	
lame and mailing address of the International			
reliminary examining authority:		norized Officer	
European Patent Office D-80298 Munich			And the Petralegy
Tel. +49 89 2399 • 0 Ty: 523656 comuse		chado Garganta, M	
Fax: +49 89 2399 - 4465	• " =		
Telephone No. +49 89 2399-8935			CEED

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/SE2004/000486

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_	Box N	o. I Basis of the report
1	. With refiled, u	egard to the language , this report is based on the international application in the language in which it was
		nis report is based on translations from the original language into the following language, nich is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)
2	. With re	gard to the elements* of the international application, this report is based on (replacement sheets which een furnished to the receiving Office in response to an invitation under Article 14 are referred to in this as "originally filed" and are not annexed to this report):
	Descrip	tion, Pages
1-17		as published
	Claims,	Numbers
	1-45	as published
	Drawine	ıs, Sheets
	· .	
	1/5-5/5	as published
	⊠ as	equence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.		amendments have resulted in the cancellation of: the description, pages the claims, Nos.
		he drawings, sheets/figs
		the sequence listing (specify): any table(s) related to sequence listing (specify):
١.	Supplen	s report has been established as if (some of) the amendments annexed to this report and listed below been made, since they have been considered to go beyond the disclosure as filed, as indicated in the nental Box (Rule 70.2(c)).
	LJ t	he description, pages he claims, Nos.
	L⊥ t	he drawings, sheets/figs he sequence listing <i>(specify)</i> : ny table(s) related to sequence listing <i>(specify)</i> :
		item 4 applies, some or all of these sheets may be marked "superseded "

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-45

Inventive step (IS)

Yes: Claims

No: Claims

1-45 1-45

Industrial applicability (IA)

Yes: Claims

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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	Unn	emental Poy relation to Community		
		emental Box relating to Sequence Listing		
		tion of Box I, item 2:		
1. W	ith r	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this report has been established on the basis of:		
	a. type of material:			
	×	a sequence listing		
		table(s) related to the sequence listing		
b.	b. format of material:			
	×	in written format		
	\boxtimes	in computer readable form		
c. 1	time	of filing/furnishing:		
	×	contained in the international application as filed		
	\boxtimes	filed together with the international application in computer readable form		
		furnished subsequently to this Authority for the purposes of search and/or examination		
		received by this Authority as an amendment on		
2. 🛛	ado	addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating reto has been filed or furnished, the required statements that the information in the subsequent or ditional copies is identical to that in the application as filed or does not go beyond the application as filed, appropriate, were furnished.		
3. Add	3. Additional observations, if necessary:			

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: WO 00 37676 A1

D2: DATABASE WPI Derwent Publications Ltd., London, GB; Class B04, AN 1995-170454, XP002979234 & ZA 9 402 779 A (AMERICAN CYANIMID CO) 29 March 1995

- 2. Novelty
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-45 is not new in the sense of Article 33(2) PCT.

The subject-matter of claims 1, 2, 23 and 24, relating to methods that modulate or inhibit topoisomerase or gyrase activity, is already disclosed in document D1, which discloses methods for screening compounds for antibiotic or other biological activity, by measuring the level of expression of a reporter gene, wherein the compounds are incubated with aliquots of the cells

. Target genes for use in B. subtilis or other bacteria can be those involved in DNA replication, such as dnaA, gyrA, lig(yerG) or topA, B (see pages 2, 5, 6, 11 and 21).

The additional features of claims 3-22 and 25-45 are also known from D1 (see pages 3, 5, 6, 11, 19-21). Thus, these claims are also not novel (Article 33(2) PCT).

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International application No.

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- 2.2 Document D2 is also considered to be relevant for the subject-matter of claims 1-45, with regard to novelty (Article 33(2) PCT), as it describes the detection of inhibitors of DNA gyrase which could be used as antibiotics (see abstract).
- 3.1 The use of general statements in the description which imply that the extent of protection may be expanded in some vague and not precisely defined way (use of the term "spirit of the invention" on page 17), is not allowable (Article 6 PCT; see Guidelines III-4.3.a).
- 3.2 References to "co-pending U.S. patent application serial numbers" (see page 1) should not be made. The corresponding publication number, provided the publication date was prior to the effective date of the present application, is to be given in such a case; otherwise a pre-published family member application should be cited.